

gulam & t Aream Curvæ quadrandæ, & d, e, f, g, g. h, " sunt quantitates datæ cum signis suis + & -.

TABULA

Curvarum simpliciorum quæ quadrari possunt.

Curvarum formæ. Curvarum areæ.

Forma prima.

$$dz^{n-1} = y. \quad \frac{d}{n} z^n = t.$$

Forma secunda.

$$\frac{dz^{n-1}}{ee-2efz_n+ffz_2} = y. \quad \frac{dz_n}{ne-efz_n} = t, \text{ vel } \frac{-d}{ne-efz_n} = t.$$

Forma tertia.

$$\begin{aligned} 1. & dz^{n-1} \sqrt{e+fz_n} = y. \quad \frac{2d}{3nf} R^3 = t, \text{ existente } R = \sqrt{e+fz_n} \\ 2. & dz^{2n-1} \sqrt{e+fz_n} = y. \quad \frac{-4e+6fz_n}{15nf^2} dR^3 = t. \\ 3. & dz^{3n-1} \sqrt{e+fz_n} = y. \quad \frac{16ee-24efz_n+3offz_2n}{105nf^3} dR^3 = t. \\ 4. & dz^{4n-1} \sqrt{e+fz_n} = y. \quad \frac{-96e3+144eefz_n-18oeffz_2n+21of3z_3n}{945nf^4} dR^3 = t. \end{aligned}$$

Forma quarta.

$$\begin{aligned} 1. & \frac{dz^{n-1}}{\sqrt{e+fz_n}} = y. \quad \frac{2d}{nf} R = t. \\ 2. & \frac{dz^{2n-1}}{\sqrt{e+fz_n}} = y. \quad \frac{-4e+2fz_n}{3nf^2} dR = t. \end{aligned}$$

dz^{3n-1}

$$3. \frac{dz^{3n-1}}{\sqrt{e+fz_n}} = y.$$

$$4. \frac{dz^{4n-1}}{\sqrt{e+fz_n}} = y.$$

$$\frac{16ee-8efz_n+6ffz_2n}{15nf^3} dR = t.$$

$$\frac{-96e3+48eefz_n-36oeffz_2n+3of3z_3n}{105nf^4} dR = t.$$

TABULA

Curvarum simpliciorum quæ cum Ellipsi & Hyperbola compari possunt.

Sit jam aGD vel PGD vel GDS Sectio Conica cujus area ad Quadraturam Curvæ propositæ requiritur, sitq; ejus centrum A, Axis Ka, Vertex a, Semiaxis conjugatus AP, datum Abscissæ principium A vel a vel α , Abscissa AB vel aB vel $\alpha B = x$, Ordinata rectangula BD=v, & Area ABDP vel aBDG vel $\alpha BDG = s$, existente αG Ordinata ad punctum α . Jungantur KD, AD, aD. Ducatur Tangens DT occurrens Abscissæ AB in T, & compleatur parallelogrammum ABDO. Et siquando ad quadraturam Curvæ propositæ requiruntur areæ duarum Sectionem Conicarum, dicatur posterioris Abscissa ξ , Ordinata r , & Area σ . Sit autem \div differentia duarum quantitatum ubi incertum est utrum posterior de priori an prior de posteriori subduci debeat.

Curva-